

Title (en)  
RECHARGEABLE BATTERY POLYMERIC ELECTROLYTE

Title (de)  
ELEKTROLYTISCHES POLYMER FÜR WIEDERAUFLASBARE BATTERIE

Title (fr)  
ELECTROLYTE POLYMERES POUR PILE RECHARGEABLE

Publication  
**EP 0842216 A4 20000322 (EN)**

Application  
**EP 96928024 A 19960805**

Priority

- US 9612460 W 19960805
- US 51147095 A 19950804

Abstract (en)  
[origin: WO9706207A1] This invention is directed to a novel solid polymer electrolyte more particularly thin film terpolymer networks are disclosed that are highly conductive at ambient temperatures. This solid polymer electrolyte can be produced as a thin film (14) that results from the polymerization of three selected monomers together with a lithium salt and plasticizers. The resulting solid polymer electrolyte does have excellent mechanical properties and ionic conductivity at ambient temperatures and can be used in the fabrication of a solid state battery and other solid state electrochemical devices such as supercapacitors, fuel cells, sensors, electrochromic devices or the like.

IPC 1-7  
**C08J 5/22**; **H01M 6/18**

IPC 8 full level  
**C08J 5/18** (2006.01); **C08J 5/22** (2006.01); **C25B 13/08** (2006.01); **H01B 1/12** (2006.01); **H01M 6/18** (2006.01); **H01M 10/05** (2010.01); **H01M 10/052** (2010.01); **H01M 10/0565** (2010.01)

CPC (source: EP US)  
**C08J 5/2218** (2013.01 - EP US); **H01M 6/181** (2013.01 - EP US)

Citation (search report)

- [A] US 5240791 A 19930831 - IZUTI SHYUITI [JP], et al
- [A] US 5275750 A 19940104 - SATO YOSHIKO [JP], et al
- [A] DATABASE WPI Section Ch Week 199349, Derwent World Patents Index; Class A12, AN 1993-392717, XP002128871
- See references of WO 9706207A1

Designated contracting state (EPC)  
AT DE DK ES FR GB IE IT NL SE

DOCDB simple family (publication)  
**WO 9706207 A1 19970220**; AT E229552 T1 20021215; AU 6763596 A 19970305; CA 2227268 A1 19970220; CN 1192762 A 19980909; DE 69625363 D1 20030123; DE 69625363 T2 20030430; EP 0842216 A1 19980520; EP 0842216 A4 20000322; EP 0842216 B1 20021211; JP H11510308 A 19990907; US 5609974 A 19970311

DOCDB simple family (application)  
**US 9612460 W 19960805**; AT 96928024 T 19960805; AU 6763596 A 19960805; CA 2227268 A 19960805; CN 96196045 A 19960805; DE 69625363 T 19960805; EP 96928024 A 19960805; JP 50848697 A 19960805; US 51147095 A 19950804